

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S27	2	("20070052040").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/13 10:10
S26	11	S25 AND getter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/13 10:10
S25	255	S24 AND ("257" OR "438").clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/12 18:05
S24	453	(barrier WITH ("not" OR prevent\$3 OR inhibit\$3) WITH oxidiz\$3) AND (copper OR Cu) AND oxygen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/12 18:04
S20	371	(barrier WITH metal WITH ("not" OR prevent\$3 OR inhibit\$3) WITH oxidiz\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/12 18:03
S23	8	S22 AND (grain WITH boundar\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/12 17:59
S22	58	("0130702"   "0701429"   "1538246"   "1642348"   "1960740"   "2002460"   "2046702"   "3091527"   "3998633"   "4400351"   "4586967"   "4749548"   "4908275"   "5004520"   "5021105"   "5023698"   "5077005").PN. OR ("6063506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/12/12 17:59
S21	30	S20 AND (copper OR Cu) AND (grain WITH boundar\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/12 17:54

## EAST Search History

S19	3	(diffus\$3 WITH (Cu OR copper) WITH (via OR through) WITH grain WITH boundar\$3) AND (barrier WITH metal WITH oxidiz\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/12 17:53
S18	31	diffus\$3 WITH (element OR metal) WITH (Cu OR copper) WITH (via OR through) WITH grain WITH boundar\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/12 17:50
S17	8	diffusing WITH (element OR metal) WITH (Cu OR copper) WITH (via OR through) WITH grain WITH boundar\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 14:32
S16	1	(Ti OR titanium) AND S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 14:31
S15	0	(Ti OR titanium) AND getter\$3 AND S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 13:40
S14	0	(copper OR Cu) AND (Ti OR titanium) AND getter\$3 AND S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 13:40
S12	17	(copper OR Cu) AND ((barrier layer" SAME (Ti OR titanium)) SAME (Ta OR tantalum) SAME getter\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 13:39
S13	8	("5785236" "6213347" "6228680" "6245583").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 13:38

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S10	38	(copper OR Cu) AND (("barrier layer" SAME (Ti OR titanium)) SAME getter\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 13:05
S11	2	("5654084").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/10 12:46
S9	213	(copper OR Cu) AND ("barrier layer" WITH (Ti OR titanium)) AND getter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 12:40
S8	1	((copper OR Cu) WITH alloy WITH (polycrystalline OR poly OR poly-OR poly-crystalline)) AND ("barrier layer" WITH (Ti OR titanium)) AND getter\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 12:39
S7	61	((copper OR Cu) WITH alloy WITH (polycrystalline OR poly OR poly-OR poly-crystalline)) AND "barrier layer" AND getter\$3 AND (Ti OR titanium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 12:34
S2	0	((copper OR Cu) WITH alloy WITH (polycrystalline OR poly OR poly-OR poly-crystalline)) AND (concentration WITH (grain NEAR boundar\$3) WITH (copper OR Cu) WITH alloy) AND (grain WITH boundar\$3 WITH (higher OR lower) WITH than WITH (inside OR outside OR internal OR external)) AND "barrier layer" AND (concentration WITH (interface OR boundar\$2) WITH (copper OR Cu) WITH "barrier layer")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/10 12:30
S6	2	("5552341").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 10:16

## EAST Search History

S1	2	("20060113685").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/02 10:16
S5	52	("0130702"   "0701429"   "1538246"   "1642348"   "1960740"   "2002460"   "2046702"   "3091527"   "3998633"   "4400351"   "4586967"   "4749548"   "4908275"   "5004520"   "5021105"   "5023698"   "5077005").PN. OR ("6063506").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/15 20:09
S4	46	("4120758"   "4388346"   "4400351"   "4443274"   "4511410"   "4586967"   "4612411"   "4749548"   "4798660"   "4830933"   "4915745"   "5004520"   "5021105"   "5023698"   "5077005"   "5221411"   "5391517"   "5656860"   "5780172"   "5821627"   "5916695"   "6010960").PN. OR ("6090710").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/15 20:09
S3	3	(("6063506") or ("6090710")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/15 20:08